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TI Hot rolled **steel** sheet manufacturing method for motor vehicle
plates - involves **rough** and **finish rolling**
of heated **steel**, followed by isothermal or slow **cooling**
and then **cooling steel** rolled into coil.
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NOVELTY - **Steel** which contains 0.05-0.4 mass% of carbon, 1.0-3.0
mass% of silicon, 0.6-3 mass% of manganese, 0.2-2.0 mass% of chromium and
remainder of iron, is heated to 1000-1300 deg. C and then subjected to a
rough rolling and **finishing rolling**
at 780-980 deg. C followed by **cooling** to 620-780 deg. C. Then
the sheet is held isothermally for 1-10 sec or slow **cooled** at a
cooling rate of 20 deg. C/sec. When a **cooling**
temperature of 350-500 deg. C is attained the **steel** is rolled in
a coil and then **cooled** to 300 deg. C at a
cooling rate of 10-200 deg. C/hr. DETAILED DESCRIPTION - After
rolling up in a coil, a 2-60 minutes isothermal maintenance or a
slow **cooling** at a rate of 50 deg. C/hr is performed. Subsequent
cooling to 300 deg. C is then done. The **steel** obtained
has a pro-eutectoid ferrite main phase and a secondary phase consisting of
martensite, a needle like ferrite and a retained austenite.
USE - For manufacturing **steel** plate for motor vehicles.
ADVANTAGE - The **steel** possesses superior mouldability with
impact-proof property, since **steel** contains pro-eutectoid
ferrite as its main phase and needle like ferrite martensite and retained
austenite as its secondary phase.
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